

*Report Period: Sep 14 - Sep 27*

*Advisor: James D. McCalley*

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*Project Title: 138kV Cyclone Substation Design*

### ❖ **Summary of Progress in this Period**

We met with the client on September 14th to discuss preliminary design work. We showed a rough system sketch and received their feedback. After some discussion, we decided to move to bi-weekly meetings with the understanding that the client is easily reachable via phone and email for any immediate questions.

Aside from the meeting with Burns & McDonnell, we also began design work on the one-line diagram and plan-view. This work is being completed on-time per our deadlines set with the client.

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### ❖ **Pending Issues**

- We need CAD symbols for the SSVT and the MOAB
- Finish relaying on the one-line diagram
- Create an updated bill of materials
- Determine appropriate conductors and conductor spacing for bus

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### ❖ **Plans for Upcoming Reporting Period**

We need to complete the one-line diagram by October 9th. We are on track to meet this deadline and will be completing a quality review to ensure the document meets client standards. We will also continue to work on the plan-view to meet its deadline. In our meeting with Burns & McDonnell on September 28th we will discuss our current layout of equipment to make sure that it is what the client is looking for.

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